(12) **EUROPEAN PATENT APPLICATION**

(71) Applicant: **KABUSHIKI KAISHA SEGA ENTERPRISES**
2-12 Haneda 1-chome,
Ohta-ku
Tokyo 144(JP)

(72) Inventor: **Asai, Toshinori, c/o K.K. Sega Enterprises**
2-12 Haneda 1-chome,
Ohta-ku
Tokyo 144(JP)
Inventor: **Kawohori, Masaki, c/o K.K. Sega Enterprises**
2-12 Haneda 1-chome,
Ohta-ku
Tokyo 144(JP)

(74) Representative: **SERJEANTS**
25, The Crescent
King Street
Leicester, LE1 6RX (GB)

(54) **CD-ROM disk and security check method for the same.**
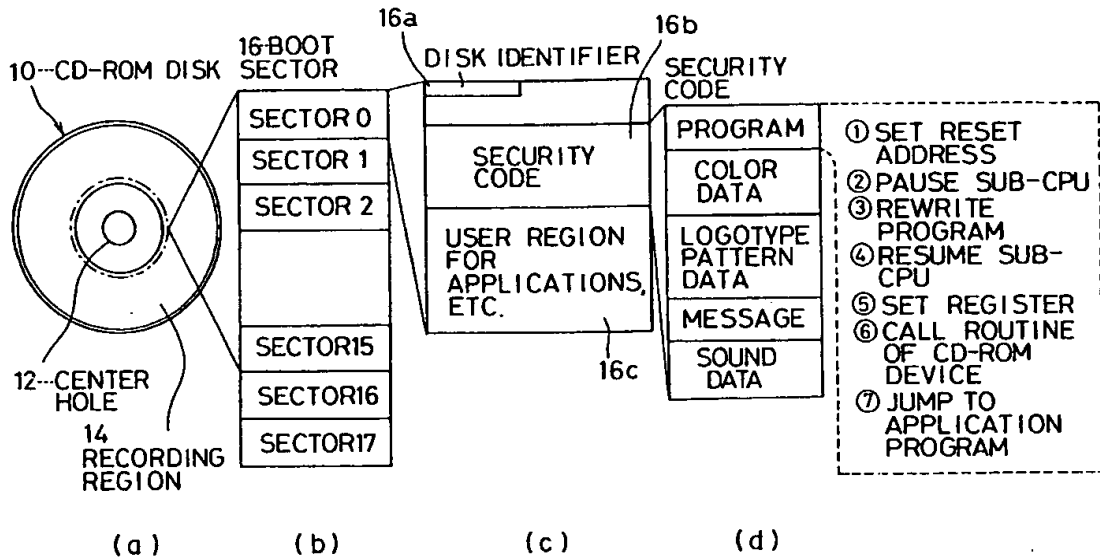
(57) A CD-ROM (10) comprises an identifier region (16a) having a disk identifier recorded therein and a security code region (16b) having a security code recorded therein. The identifier region and the security code region are provided in one sector of a boot sector (16) to be read when actuated. The disk identifier includes a preset identification code, and the security code includes at least a program to be executed after check of the security code, and display data for displaying a licence.

A security check method for a CD-ROM comprising the steps of reading data recorded in the boot sector of the CD-ROM when actuated, comparing the disk identifier read from the identifier region of the boot sector with an stored identifier to check whether or not the read disk identifier is correct, comparing the security code read from the security region of the boot sector with a stored security code to check whether or not the read security code is correct, and executing the program contained in the security code when the read disk identifier and the read security code are correct, and displaying a licence based on the display data.

FIG. 1

10---CD-ROM DISK

16-BOOT SECTOR   16a   DISK IDENTIFIER   16b   SECURITY CODE

SECTOR 0
SECTOR 1
SECTOR 2
SECTOR15
SECTOR16
SECTOR17

SECURITY CODE
USER REGION FOR APPLICATIONS, ETC.

16c

PROGRAM
COLOR DATA
LOGOTYPE PATTERN DATA
MESSAGE
SOUND DATA

① SET RESET ADDRESS
② PAUSE SUB-CPU
③ REWRITE PROGRAM
④ RESUME SUB-CPU
⑤ SET REGISTER
⑥ CALL ROUTINE OF CD-ROM DEVICE
⑦ JUMP TO APPLICATION PROGRAM

12---CENTER HOLE

14 RECORDING REGION

(a)   (b)   (c)   (d)

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL5)
X	EP-A-0 080 244 (MAGNAVOX; PHILIPS) * abstract; claims 4-7 * * page 11, line 2 - line 13 * * page 5, line 26 - line 36 * ---	1,2,5,6	G06F1/00 G11B7/00 G11B7/007 G11B7/013 G11B20/00
X A	US-A-4 462 076 (J. SMITH III) * the whole document * ---	1,3,5,7 2,6	
X	EP-A-0 378 385 (NINTENDO) * column 2, line 44 - column 3, line 57; figure 8 * * column 9, line 17 - line 21 * * column 12, line 44 - column 14, line 31; figure 9 * ---	1,2,5,6	
A	EP-A-0 447 043 (SEGA) * the whole document * ---	1,5	
A	PATENT ABSTRACTS OF JAPAN vol. 15, no. 335 (P-1242)26 August 1991 & JP-A-31 22 713 (SANYO) 24 May 1991 * abstract * -----	1,5	TECHNICAL FIELDS SEARCHED (Int. CL5) G06F G11B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	11 OCTOBER 1993	HOLUBOV C.A.